

Claims

1. A vacuum device comprising

a plurality of cryopumps (10) connected with one or a plurality of vacuum chambers,

a compressor means (16) connected via media supply conduits (12) and media return conduits (14) with the cryopumps (10),

an adjusting means (18) connected before at least one of the cryopumps (10) for controlling the amount of media fed to the cryopump (10),

a temperature measuring device connected with the cryopump (10), and

a controller (28) connected with the adjusting means (18) and the temperature measuring device,

characterized in that

the adjusting means (18) comprises a throttle means (24) arranged in the corresponding media supply conduit (12) and a valve (26) arranged in a throttle bypass conduit (22).

2. The vacuum device according to claim 1, characterized in that the cross-section of the throttle bypass conduit (22) is designed for a maximum media supply.

3. The vacuum device according to claim 1 or 2, characterized in that the throttle device (24) has a cross-section designed for the media supply required for standard operation.
4. The vacuum device according to one of claims 1-3, characterized in that the cross-sectional area of the throttle device (24) is adjustable.
5. The vacuum device according to one of claims 1-4, characterized in that the flow rate through the valve (26) is adjustable.
6. The vacuum device according to one of claims 1-5, characterized in that an adjusting means (18) is connected before each cyropump (10).